

2/9/1 (Item 1 from file: 351)  
002513793

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Wood surface treatment by priming and applying top coat -  
where undercoat contains alkylenediamine and glycidyl dicarboxylate and  
top coat is polyurethane or alkyd resin

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Number of Countries: 001 Number of Patents: 001

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Priority Applications (No Type Date): JP 78111928 A 19780911

Abstract (Basic): JP 55039239 A

A surface treatment method for wood comprises (1) applying paint composed primarily of an alkylenediamine and a glycidyl diester of an unsatd. carboxylic acid on the surface of wood in the presence of a radical polymerisation initiator to form undercoat, and then (2) coating a finish paint composed of urethane resin or alkyd resin is coated on the surface of the undercoat.

The surface treatment provides a soft and tough protective film, in which the length of surface cracks which develop with time is remarkably small, thus keeping wood from decaying and deteriorating due to air, water sunlight, etc.

Derwent Class: A82; F09; G02; P42

International Patent Class (Additional): B05D-007/06; C09D-005/00

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2/9/2 (Item 1 from file: 347)

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SURFACE TREATING METHOD FOR WOOD

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#### ABSTRACT

PURPOSE: To make short the length of generated cracks, by applying to the surface of wood the paint composed of alkylene diamine and glycidyl ester of unsaturated carboxylic acid under coexistence of the radical polymerization initiator, and next, by applying the finishing paint like as urethane resin, etc., to the surface of above undercoat film.

CONSTITUTION: Alkylene diamine (ethylene diamine, for example) and glycidyl ester of unsaturated carboxylic acid shown by the formula (in

JP55039239abs.txt

which, R is C<sub>n</sub>H<sub>2n+1</sub> and n=0-3) at mole ratio 1:0.5-2.5 are dissolved into MEK, etc. After the radical polymerization initiator is added to above prepared paint, this paint is applied to the surface of wood at a rate 1.5-30g/m<sup>2</sup>, and then, the paint film is heated to 40-120 deg.C for less than 15 minutes; hereby, the undercoat film is formed. Next, onto this undercoat film, the finishing paint like as urethane resin, alkyd resin, etc., is applied.

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